

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



# KEMP QUARRIES / MUSK WL042

Component **Front Right Final Drive** 

PETRO CANADA PRODURO

**Emulsified Water** 

Free Water

scalar

scalar \*Visual

\*Visual

>0.2

SKOGEE SAND	[68122]					
9						
RO TO-4 SAE 50 (	GAL)					
SAMPLE INFOF		62011 Feb2	limit/base	Apr2018 Dec2019 Jun202 Current	history1	history2
Sample Number		Client Info	mmbase	PCA0086503	PCA0087043	PCA0084512
Sample Date		Client Info		11 Jan 2024	24 Oct 2023	11 Jul 2023
Machine Age	hrs	Client Info		33041	33553	32072
Oil Age	hrs	Client Info		33041	33553	32072
Oil Changed	1110	Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	267	<b>9</b> 03	466
Chromium	ppm	ASTM D5185m	>10	<1	2	2
Nickel	ppm	ASTM D5185m	>5	0	1	2
Titanium	ppm	ASTM D5185m	>15	<1	1	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	3	8	34
Lead	ppm	ASTM D5185m	>10	0	0	<b>1</b> 0
Copper	ppm	ASTM D5185m	>75	6	14	<b>1</b> 06
Tin	ppm	ASTM D5185m	>8	<1	<1	<b>6</b>
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	4	2
Barium	ppm	ASTM D5185m	0	0	19	0
Molybdenum	ppm	ASTM D5185m	0	4	2	2
Manganese	ppm	ASTM D5185m	0	2	8	5
Magnesium	ppm	ASTM D5185m	9	54	24	25
Calcium	ppm	ASTM D5185m	3114	2866	3254	2604
Phosphorus	ppm	ASTM D5185m	1099	893	986	959
Zinc	ppm	ASTM D5185m	1245	1022	1174	1160
Sulfur	ppm	ASTM D5185m	7086	3957	7765	4532
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	41	88	210
Sodium	ppm	ASTM D5185m	00	1	4	2
Potassium	ppm	ASTM D5185m		0	3	12
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
Appearance	scalar	*Visual *Visual	NORML NORML		NORML	NORML
Odor	scalar	visual	NURIVIL	NORML	NURIVIL	NURIVIL

NEG

NEG

0.2%

NEG

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-2 sampled fluid )

Fluic

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

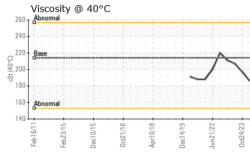
The condition of the oil is acceptable for the time in service.

NEG

NEG



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	FLUID PROP	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	213.9	186	197	207
Jun21/22	SAMPLE IMA	GES	method	limit/base	current	history1	history2
	Color				no image	no image	no image
	Bottom				no image	no image	no image
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
z Wdd 1	500 500 4000 500 4000 500 4000 500 4000 500 4000 500 4000 500 5	0ct21/16 0ct	Dec14/19 Dec14/19 Dec14/19 Dec14/19 Jun21/22	Dai24/23	Abnormal Abnormal Chromium (p Severe Chromium (p	bm)	Dec14/19 Jun21/22 0c24/23 0c24/23
шdd	Copper (ppm) 200 150 150 100 100 100 100 100 100 100 1	Aprilo/18	Dec14/19		Additives		Jun21/22 +
2 (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	240 -	0ci21/16 April 0/18	Deci4/19-	200 200 151 100 51 51	calcium phosphon zinc 200	0cd21/16 April0/18	Dec14/19 Jun2/1/22 Oct24/23
thods that a	: WearCheck USA : PCA0086503 : 06067940 : 10844617 : MOB 1 contact Customer Se re outside of the ISO fications are based or	Recieved Diagnose Diagnose rvice at 1-8 17025 sco	son Ave., Ca d : 22 d ed : 24 d ician : Dor 200-237-1368 upe of accred	Jan 2024 Jan 2024 n Baldridge 9. <i>litation.</i>	Contac m	t: MUSCOGEE N luskogee@musl	luskogee San 195 W 50th St I Porter, O US 7445 IOTIFICATION

